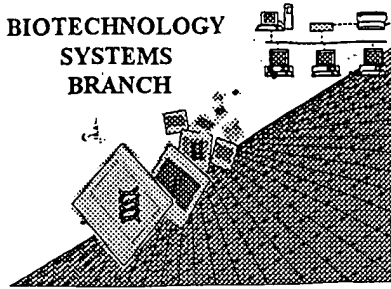


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/701,926
Source: PCT/09
Date Processed by STIC: 10/26/2001

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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 09/701,926

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length
Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES)
Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
 (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220>
Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001

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PCT09

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/701,926

DATE: 10/26/2001
TIME: 16:12:56

pp 1-8

Input Set : A:\SequenceListing.txt
Output Set: N:\CRF3\10262001\I701926.raw

Does Not Comply
Corrected Diskette Needed

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7 <130> FILE REFERENCE: 111590-120
9 <140> CURRENT APPLICATION NUMBER: 09/701,926
10 <141> CURRENT FILING DATE: 2000-12-04
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13 <151> PRIOR FILING DATE: 1998-06-04
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24 <160> NUMBER OF SEQ ID NOS: 39
26 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

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85 <213> ORGANISM: Tomato
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P.2

RAW SEQUENCE LISTING

DATE: 10/26/2001

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TIME: 16:12:56

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→ see
item 9
on Enov

→ summary
sheet

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,926

DATE: 10/26/2001

TIME: 16:12:56

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197 <213> ORGANISM: Tomato

199 <400> SEQUENCE: 4

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RAW SEQUENCE LISTING

DATE: 10/26/2001

PATENT APPLICATION: US/09/701,926

TIME: 16:12:56

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dem 9

p. 5, 200

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RAW SEQUENCE LISTING

DATE: 10/26/2001

PATENT APPLICATION: US/09/701,926

TIME: 16:12:56

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF3\10262001\I701926.raw

```

334 tggctagtgt atatatgtatt gtcttatatc cgtcatcttg gaggaagaaa atcgtgtcct 540
335 cagttttctg atattctgct catcaatcat cgactagcca atacactttg gccctacata 600
336 tacacatact tatgagaagg aaaatacga atacgctcct tcaagacgag ttgaactttg 660
337 taaattgttg tagtattagt atatgttaat gaggaatgt agattttgtt gtagtttggt 720
338 gatttgtaga atctgtctta taaagggact tacatgttga ggcaaactgt ataaaggtta 780
339 aattgtcaat aacacacatc aaaatatgg accagtattt taagtaattt tttctgtata 840
340 aaggctatgt tgctcaaata cttcaaaaat ctgcacagat gcatggcacc ggtagtgcac 900
341 ttttttgaat gagctggata cgagtgcatt aatatatttg ggaagtttga gcaaaataga 960
342 cctgaaatta cttttagctt ttctttttta aaggaatcgg atatgggtac aataatattt 1020
343 ttgaagagtc tgagcaacat agactactct cggtaggatg aggataagat tgaaatttta 1080
E--> 344 aaatgctcta aagagaaaaa ttgtggataa gattctccac taatttttnt atgacatgat 1140
345 gagattctgc ctaagagttc caagaatatg gtgcacctgt taataatgta tatattataa 1200
346 tagcataatc cactgttatg attttagcaa gctccttttt gtaatatatg aatgaacata 1260
347 aatataaaaa aggagagtta tatttgaacc atataaaaaa tgttacaagt atttttatat 1320
348 gaataatata ataaaaagta aaccttttcg acaaaaaatt gattcatttc cttttttaac 1380
349 aattataacg gtttttaaat cctaataata acctagttaa aatatctatt tcaacccttc 1440
350 tcgcagctgt attgcctaaa acccatatca cccccacgta gcctaaaatt tactttatac 1500
351 tacgttgttt tgtttctcat ttttatttat ctttaattta tatcctgtaa aaagactcaa 1560
352 agatgttttc tttaaatttt actttatttt ttttaggata aaaaatttgc aattcctaa 1619
354 <210> SEQ ID NO: 13
355 <211> LENGTH: 1193
356 <212> TYPE: DNA
357 <213> ORGANISM: Tomato
359 <400> SEQUENCE: 13
360 tgagtagaag ataaacttga caacgcatta gctcgaataa gagcataaat aaaaaagttt 60
361 taactttaag aatccgtgca aaaaatcacc tactcaatta actcgatcaa tattctttca 120
362 tcgtaacttt acccgtttgg tattatatgt gtaaatatac ctaaataata atacgagtct 180
363 ataataacct aataaaaaata ttaggcataa tagcgggtgtt gttttgttag actcagtatt 240
364 ttttatattt tataaaataa atactacgct ctttcaccaa acaattcttc aacgttaaat 300
365 attcttgacg gttttgttct gaaactatga ttctctttta gatttttggt ttgttgattt 360
366 ctgatcaaaa actaaaagag aataattctt ctcccatctt attgctatct ttttatgatt 420
367 gatttgttgg gggttcagca aatttattta tgttctttta gtttttcctc ttttatctgt 480
368 atttgaatct tgatcaatta atgttctttg atcatttggt tgttagaatc caaatcgcg 540
369 agcaagagaa aaagatttag gaaatgagta aagattggat ttttatggga aagatctaaa 600
370 gatttggttg aagggattaa tgaattgagc atatgagcta aaaaatcaat cttgggtgag 660
371 agggatatgt atttgtggaa gttttgttag cttttcttgt atgtattgat attagatgat 720
E--> 372 ttaaacagag tcaactaacat tcatatagct gaccttgaat tgtttaggnc agtggcgtag 780
373 tagttgttgt tgttataaga gaatgagtgc tatggggagg ataggtagt acataggtag 840
E--> 374 aggggtacgt agtgtttcgg ggacgttgaa tccatttggt ggttctgtgg atatcattgt 900
375 ggtgaggcag ccagatggga gtttgaaatc aactccttgg tatgttagat ttgggaagat 960
376 tcagggggtt ttgaaggcta gagaaaatgc ggttaatgta agtgtcaatg gcgttgaagc 1020
377 tggttttcgt atgaatttag atactagagg gcaggcatac ttcctaagg agcgagacat 1080
378 ggaaaatgga tattctttta ctactcgaac atttgaacaa cttgcacctt tgaatctgaa 1140
E--> 379 ggaggaaaga atgtgggtga ttcnctgct caaaacccca gcccgggccg tcg 1193
381 <210> SEQ ID NO: 14
382 <211> LENGTH: 222
383 <212> TYPE: DNA
384 <213> ORGANISM: Tomato
386 <400> SEQUENCE: 14

```

item 9

item 9

item 9

item 9

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,926

DATE: 10/26/2001

TIME: 16:12:56

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF3\10262001\I701926.raw

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E--> 387 tatgttgctc aaatccttca aaaatctcga cagatgcatg nnnnnnnnng caccggtag 60
      388 tgcatttttt tgaatgagct ggatacgagt gcaataatat atttggaag tttgagcaaa 120
E--> 389 atagacctga aattactttt agcttttctt ttttaaagnn nnnnnnnnnn nngaatecga 180
E--> 390 tatgggtaca ataataattt tgaagagtcn tgagcaacat ag 222
      392 <210> SEQ ID NO: 15
      393 <211> LENGTH: 222
      394 <212> TYPE: DNA
      395 <213> ORGANISM: Potato
      397 <400> SEQUENCE: 15
      398 tatgttgctc aaacacttca aaaatgtcca caggtgctgt tcggatactc caaaaagtag 60
E--> 399 tgtatttagg tgtgtgnnnn tgatattagt nnnagtgtat atttaggntg tgtgtggata 120
E--> 400 gtagnnntgt atttagatgt gtgtgatatt tcaaaaagtt gtgtattttg gagaatttga 180
      401 tacgggtgctg gcaacaattt tgaagagtca ggagcaaaat ag 222
      531 <210> SEQ ID NO: 32
      532 <211> LENGTH: 1588
      533 <212> TYPE: DNA
      534 <213> ORGANISM: Tomato
      536 <400> SEQUENCE: 32
      537 atcaagttga aatatgttaa caaaatgtac agttttatta tttttatttt atttataaaa 60
      538 aaaaaattgt acaaagaaac aaaatocott ctttctgtat ttccatgtga tgtttaaatg 120
      539 gcatttgagt aaaagccaca aaaggcccat gtgaaattta taaaattttg aaacattttt 180
      540 gcataacaaa acaatacata agaggacacg taaaacttac taaaagagtt ttagttacg 240
      541 tataagcaaa gtttgagatt cccaagaaga aagagtttga aaataactaaa tgtcttggtg 300
      542 tcatccatat atatatatat gaatgaattc tcacatttgt gatcaagatt tctttatgca 360
E--> 543 tgntaatatt tatatttgga aattaaccgt cgattaatta agattatcat tgaataagg 420
      544 ttgaaaaaga taaattgaac tatttcactt ttggagtgtt attgttatct gctagggtcaa 480
      545 tttagaatca taaattggaa ataaaaagac aacaatgcc ttttcttttc ttggatactt 540
      546 tgaggttgta ctaaaggaca tataaaaagg tgaaaaagct aaaagtttca ctaataacta 600
      547 atttttattt tactttgtct tgtgtactaa acttttccat gtcttttcc tccaatttcc 660
      548 agttgtgatg gatagtaaat tttctatagc attcaacaca aggacaaaac actaagcaac 720
      549 aaaagcatcc aaaaaccaag attagcaatg tgcaaatgaa gctttatgta tgatcaaaaa 780
      550 cacaacttgg aagttggaac tacctatctt agattccatc actttttttt tgttctccat 840
      551 cgatattcat cgatattcag tattcgagct ccgattaat cataattcga taaagcgtac 900
      552 ttttaataaaa ataatttcac tcgaaggctt caatctgaaa ccactgatta ttaaaaatga 960
      553 aagaattcta tcattattcc atatcttttt aggagattca agttaaaata gacaaccttt 1020
      554 ttcttttaaat attgtcaca tggtaataga tgcagcgcg cctaatttca cattttttta 1080
      555 tataccaggc tatcattaac ttttttttta tttaaaaaac tttaatgatt tcgaagaaat 1140
      556 aatgactata taaaaaaaac aagaaatatt agtagccatc attatgtata tgagcaaaca 1200
      557 aaacgaaaaat ggaactatgg caacatcatg gaagctagga ataaacagct ccacttcaca 1260
      558 agagaacaaa gttcatgttg tactattata ctttttttta ttttgacctc ttttaatatc 1320
      559 gtatatatta agcaagttgt taatcatata ccacttttta aatatttact tttgaaatca 1380
      560 taaaaaaatt gatgaaaaaa gttattatca tatctgttct tgcgtgagaa ataacaaata 1440
      561 tatttaagat gcacaaaaat tgattcgaac tagacttttt ttaaaaaaaa ataaaaaaca 1500
      562 tgatgaaact ctaggtgggg tattcttttt gtcaattact actaacaag attgttgaaa 1560
      563 aagaagccaa ttatatgatt catcaata 1588
      565 <210> SEQ ID NO: 33
      566 <211> LENGTH: 1307
      567 <212> TYPE: DNA
      568 <213> ORGANISM: Tomato

```

P.7

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/701,926

DATE: 10/26/2001

TIME: 16:12:56

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF3\10262001\I701926.raw

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570 <400> SEQUENCE: 33
571 ttggacttcc taccagcag ttccacacatc aatatcattt aattaaaatt aaagccattt 60
572 atttaggaaa taaatagcat aaaaaaaaca ctaataatta aaacatttgt gtcaaaggga 120
573 aagtatatgt actaatTTTT tgcataatgtg gttcaaagga ggaattTTTT aattacaaaa 180
574 aaaaaagttt tatggtggga atcaaacata ttataggata attaaagaga tggatttatt 240
575 atattttgtg taatctatta attattaaat ggcttaattt tgtatccact aataatataa 300
576 gtaattttcta tatattcagt acaatttgac tagctccaac agctttccca gtaacacata 360
577 tttatacagt tgcattctac tataataaaa atatgtaaat attttctctt taccgtaact 420
578 ccagtaaaac ttaactctta attaataata caacactaat ctaggcaagc tgtagactgt 480
579 aattaattgc atgtttttaa tctgtgaagg gtcgtttggc ataaaaatac ataatgcagg 540
580 gattattaac gtatagatta gtaatacata gattagtaat gcatggatta gtttttatca 600
581 agtgtttgat tcattgtttc ctacttaatc ttatgtttag tttaaaactc tagaaaaata 660
582 tatttcctat tatacctttg agttattgtg agaatttgta tttcatttaa ctagtcaagt 720
E--> 583 taaatncnaa tttatatata tatatatata ttattaattt tgagggtgtga tatgtcacac 780
584 tgtatatattt taattttttg ttggtcaaatt ataccttgaa cttaaaccatg gatttaaggc 840
E--> 585 tattttaatt gttaaataac acgaacctta ttttttttat aaaanaatca agtgggtcaat 900
E--> 586 cgcaaaactac atttataaaa naaaggccaa aaaaatcaat ccaatataac agctcatata 960
587 tggagaaaaa attagtttat gaaatcatca aattacatgg aataaatttg gagaatttaa 1020
E--> 588 atgaatatatt ataatattt tcatataaat aaaaaagaac attaattaca aatanaataa 1080
589 tagaaaaaaa atttgaggat attttagtca ttttggaatc ttttcgaagg attgctaaac 1140
590 cttgaattag ctatccctcc atttcctagg gataaaataa gaccttgatg gaggtataac 1200
591 taatctatgg attaggttaa ataaagtaac caaacaatat ttttgttgga ctaaatttta 1260
E--> 592 atccatggat tcnttggatt aatacctcct accagcccg ggcgtcg 1307
594 <210> SEQ ID NO: 34
595 <211> LENGTH: 255
596 <212> TYPE: DNA
597 <213> ORGANISM: Tomato
599 <400> SEQUENCE: 34
600 ggtcgtttgg cataaaaaata cataatgcag ggattattaa cgtatagatt agtaatacat 60
601 agattagtaa tgcattgatt agtttttatt aagtgtttga ttcattgttt cctacttaat 120
E--> 602 cttatgttta gtttaaaact ctagaaaaat anntatttcc tattatacct ttgagttatt 180
E--> 603 gtgagaattt gtatttcatt taactnagtc aagttaaatt cnaatttata tatatatata 240
604 tatattatta atttt 255
606 <210> SEQ ID NO: 35
607 <211> LENGTH: 255
608 <212> TYPE: DNA
609 <213> ORGANISM: Tomato
611 <400> SEQUENCE: 35
E--> 612 gatcgtacgg tacaaagatc aatacttcag gnnnnnnnnn nnnnnngagt agtaatacat 60
E--> 613 tttttggtaa tgcagagatt antttttatc aagtgtttgg ttcattgttt nttacctaat 120
614 tttgtgtgtg gtttaaagtt tacaaaaaat aattctttcc aattatacgc taaagttatt 180
E--> 615 atgagatttt atatttcatt taattgggtc aannnaatag ataattgacc gataatatta 240
616 ttttttataa cattt 255
647 <210> SEQ ID NO: 39
648 <211> LENGTH: 197
649 <212> TYPE: DNA
650 <213> ORGANISM: Tomato
652 <400> SEQUENCE: 39
E--> 653 ttatatattt gtatttgtat aaagtgaag agacgatggn gagagtagcg agcgagatta 60

```

RAW SEQUENCE LISTING

DATE: 10/26/2001

PATENT APPLICATION: US/09/701,926

TIME: 16:12:56

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF3\10262001\I701926.raw

E--> 654 aaaaagagtg gcgaacgnnn nnagatatgc cgtaaattag aattaaatga aactgtcatt 120
E--> 655 ataacattta ttttgaataa ataattttga tataatacac aattttcnnt taaaaagcaa 180
E--> 656 cgannnnnng ataatgt 197

Item 9

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/701,926

DATE: 10/26/2001

TIME: 16:12:57

Input Set : A:\SequenceListing.txt

Output Set: N:\CRF3\10262001\I701926.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:136 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3
M:340 Repeated in SeqNo=3
L:200 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4
M:340 Repeated in SeqNo=4
L:285 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
L:314 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11
L:326 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
M:340 Repeated in SeqNo=12
L:372 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13
M:340 Repeated in SeqNo=13
L:387 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14
M:340 Repeated in SeqNo=14
L:399 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15
M:340 Repeated in SeqNo=15
L:543 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32
L:583 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:33
M:340 Repeated in SeqNo=33
L:602 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:34
M:340 Repeated in SeqNo=34
L:612 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:35
M:340 Repeated in SeqNo=35
L:653 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:39
M:340 Repeated in SeqNo=39